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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/759,807	01/16/2004	Boo Jorgen Lars Nilsson	DSI1P001 8259			
22434 7	590 06/14/2006		EXAMINER			
BEYER WEA	AVER & THOMAS I	VU, PHU				
P.O. BOX 702	50 CA 94612-0250		ART UNIT	PAPER NUMBER		
OAKLAND, C	JA 94012-0230		2871			

DATE MAILED: 06/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application	on No.	Applicant(s)				
Office Action Summer	10/759,80	)7 	NILSSON, BOO JORGEN LARS				
Office Action Summar	Examiner		Art Unit				
	Phu Vu		2871				
The MAILING DATE of this com Period for Reply	nmunication appears on the	e cover sheet with the c	orrespondence add	ress			
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE Extensions of time may be available under the property of the property of the maximum of the maxi	HE MAILING DATE OF THe visions of 37 CFR 1.136(a). In no even is communication.  The visions of 37 CFR 1.136(a). In no even is communication.  The vision is a communication of the vision is a communication.  The vision is a communication of the vision is a communication.	IIS COMMUNICATION ont, however, may a reply be tim II expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this com D (35 U.S.C. § 133).				
Status							
1) Responsive to communication(	s) filed on .						
2a) ☐ This action is <b>FINAL</b> .	2b)⊠ This action is n	on-final.					
3) Since this application is in cond	lition for allowance except	for formal matters, pro	secution as to the i	merits is			
closed in accordance with the p	oractice under <i>Ex parte</i> Qu	ayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims							
4)⊠ Claim(s) <u>38-67 and 70-94</u> is/are	e pending in the application	າ.					
4a) Of the above claim(s)	is/are withdrawn from co	nsideration.					
5) Claim(s) is/are allowed.							
6)☐ Claim(s) is/are rejected.				1			
7) Claim(s) is/are objected	to.						
8)⊠ Claim(s) <u>38-67 and 70-94</u> are s	ubject to restriction and/or	election requirement.					
Application Papers							
9)☐ The specification is objected to	by the Examiner.						
10)☐ The drawing(s) filed on is	s/are: a) accepted or b)	objected to by the f	Examiner.				
Applicant may not request that any	objection to the drawing(s) b	e held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) incl		= : :		, ,			
11)☐ The oath or declaration is object	ted to by the Examiner. No	ote the attached Office	Action or form PTC	J-152.			
Priority under 35 U.S.C. § 119				·			
12) Acknowledgment is made of a c		der 35 U.S.C. § 119(a)	)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None							
_	ority documents have bee						
l ·	<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
			ed in this National S	itage			
* See the attached detailed Office	national Bureau (PCT Rul	,	ad.				
oce the attached detailed Office	action for a list of the certi	ned copies not receive	cu.				
Attachment(s)							
1) Notice of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Rev		Paper No(s)/Mail Da		152)			
3) Information Disclosure Statement(s) (PTO-14 Paper No(s)/Mail Date	149 or P10/SB/08)	5) Notice of Informal P 6) Other:	atent Application (PTO-	132)			
U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)	Office Action Summa	ry Pa	ort of Paper No./Mail Dat	e 20060609			

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### **DETAILED ACTION**

#### Election/Restrictions

This application contains claims directed to the following patentably distinct species:

## Group I

- IA. Two terminal switch with organic semiconductor (claims 39-43).
- IB. Two terminal switch with inorganic conductor (claim 78).

Group II (elect species for group II only IA is elected)

- IIA. Semiconductor including acetylenes, phenylenes, vinylenes, fluorenes, thiophenes, cyclopentadithiophenes (claim 41, 73).
  - IIB. Semiconductor includes MEH-PPV (claim 42, 74).
  - IIC. Semiconductor includes polyhexyl-thiophene (claim 43, 75)

## Group III

- IIIA. Deposition and patterning of organic semiconductor by coating, increasing hydrophobic/hydrophilic treatment, and/or photolithography (claims 45-48, 50)
- IIIB. Deposition and patterning of organic semiconductor through a printing process (claims 51-53).

Group IV (elect species for group IV only if IIIA is elected)

IVA. Hydrophobic treatment (claim 47)

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IVB. Hydrophilic treatment (claim 48)

Group V

VA. Deposition and patterning of organic conductor by coating, increasing hydrophobic/hydrophilic treatment, and/or photolithography (61-63, 82-84, 88-90)

VB. Deposition and patterning of organic conductor through a printing process (claims 65-66).

Group VI (elect species for group VI only if VA is elected)

IVA. Hydrophobic treatment for conductor deposition (claim 83, 89)

IVB. Hydrophilic treatment for conductor deposition (claim 84, 90)

Group VII

VIIA. Two terminal switch used in display device (70)

VIIB. Two terminal switch used in image sensor (71)

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for the Groups as appropriate as prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Any claims not listed above are considered generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims

readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phu Vu whose telephone number is (571)-272-1562.

The examiner can normally be reached on 8AM-5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Nelms can be reached on (571)-272-1787. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phu Vu Examiner

AU 2871

ANDREW SCHECHTER
PRIMARY EXAMINER

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